

HF-CH-203

Cable Damped Oscillating Wave Test System



The Cable Damped Oscillating Wave Test System (OWTS) is an all-in-one medium voltage cable tester. It supports AC withstand voltage testing and partial discharge measurement to accurately locate insulation flaws on cables and joints. Fully compliant with IEC60270 specifications, it serves new cable acceptance and aged cable preventive maintenance, greatly boosting field work efficiency.

Technical specifications

Parameter	Value
Oscillation Frequency Range	20Hz ~ 300Hz
Applicable Cable Length Range	200m ~ 20km
High Voltage Charging Current	5mA
High Voltage Switch	Trigger Mode: Laser-triggered high voltage switch
High Voltage Switch Parameters	Conduction Time: 1us On-state Resistance: <1ohm
High Voltage Switch Control	Optical fiber communication
Partial Discharge Measuring Range	1pC ~ 100nC
Partial Discharge Level Test & Bandwidth	Compliant with IEC 60270 standard issued by IEC
Partial Discharge Location Bandwidth	Auto-adjustable: 150kHz ~ 45MHz
Partial Discharge Location Accuracy	1% of total cable length (minimum resolution: 2m)
Dielectric Loss Measuring Range	0.1% ~ 10%
Real-time Partial Discharge Sampling Rate	100MHz
Partial Discharge Sampling Storage Depth	32MB (capable of recording 300ms data)
Control Mode	Wireless control
PD Calibration Mode	Automatic / Manual
Time Domain Pulse Reflection Joint Location Function under Calibration Mode	Automatically lock cable joint positions

Standard scope of supply

No.	Item	Qty	Notes
1	Damped Oscillating Wave Main Cabinet (with casters)	1 Set	High voltage resonance host, core power unit
2	High Voltage Voltage Divider	1 Piece	For voltage measurement & sampling
3	Partial Discharge Signal Acquisition Sensor & Clamp	1 Set	Capture cable PD signals
4	Industrial Testing Laptop (Pre-installed analysis software)	1 Piece	Data collection, waveform display & report generation
5	Wireless Remote Controller	1 Set	Wireless operation & parameter adjustment
6	High Voltage Connecting Cables, Grounding Wires & Accessories	1 Set	All wiring fittings for field connection
7	Power Input Cable	1 Piece	Mains power supply cord
8	English Operation Manual	1 Copy	Detailed operation & maintenance guidance
9	Factory Calibration Certificate	1 Copy	For overseas project acceptance

No.	Item	Qty	Notes
10	Product Quality Certificate & Warranty Card	1 Set	After-sales warranty voucher
11	Heavy Duty Shockproof Aluminum Transport Cases	2 Pcs	Protect equipment during sea & land transportation

Compliance and documents

Applicable standards	[TO BE CONFIRMED] standard applied to this model
Calibration certificate	[TO BE CONFIRMED]
Optional accessories	[TO BE CONFIRMED]

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.